This chart compares the equivalent sections of the UC Davis MAT 17B and (enter your college name here + course name and number).

**Calculus For Biology and Medicine Course Comparison**

Equivalency of UC Davis Calculus for Biology and Medicine (MAT 17B) and (enter your college here + course name and number)

Textbook used for (college name) course:

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**ISBN:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **UC Davis MAT 17B Sections** | **(enter your college + course name and number) Sections** |
| 5.8-6.1 Antiderivative (and solutions of initial value ODE problems); Definite Integral |  |
| 6.1 Definite Integral / Examples |  |
| 6.2 Fundamental Theorem of Calculus |  |
| 6.3 Geometric application of integrals (heavy emphasis on examples). |  |
| 7.1 Substitution rule |  |
| 7.2 Integration by parts |  |
| 7.3 Partial Fractions |  |
| 7.4 Improper integrals |  |
| 7.5 Numerical integration; Mention tables of integrals (7.7) and software packages/online tools |  |
| 7.6 Taylor approximation; (Optional: accuracy of Taylor approximations) |  |
| 8.1 Solving first order differential equations |  |
| 8.2 Equilibria and stability |  |
| Online Notes: Biological models: examples of first order differential equations |  |
| Online Notes: Solving first-order linear non-autonomous differential equations using integrating fact |  |
| 8.3 Systems of autonomous ODEs |  |
| 9.1 Solving linear systems of equations (stress main concept |  |
| 9.2 Matrices |  |
| 9.3 Eigenvalues and eigenvectors; Examples (optional: Leslie matrices 9.2.5 and 9.3.3) |  |
| 9.4 Analytical geometry |  |